

Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: Evans Huskon No. 2
Mine ID: 133

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.017.0020

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Part I Site Identification, Location and Status**Site Names and ID numbers as applicable****Mine ID:** 133**Map ID:** W48**CERCLIS:** NNN000909219**Navajo Abandoned Mine Land Reclamation Program:** NA-0135**Local name / Aliases:** Evans Huskon #2; Huskon No. 2**Chapter and local area:** Coalmine Mesa**County:** Coconino **State:** Arizona**Lat/Long:** 35.8717116677 N / -111.372051412 W**Nearby road and highway:** Indian Route 6730 **Local Post Office:** Cameron, AZ**Surface Land Status: check one or more and provide ownership and contact information below**

Tribal Trust Land ☒
Private ☐
Bureau of Land Mgmt ☐
State ☐

Public lands ☐
Tribal Fee Land ☐
Allotment ☐
Fee land ☐

Subsurface Mineral Rights:

No information on subsurface mineral rights ownership was found in the EPA/AUM Database.

Claim and operator information:

The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Arrowhead Uranium Company in 1955, and Rare Metals Corporation of America from 1957 to 1961. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 133

Highest gamma radiation measurement: 219,808 counts per minute (cpm)

Background Average: 15,819 cpm **Two Times Background:** 31,637 cpm

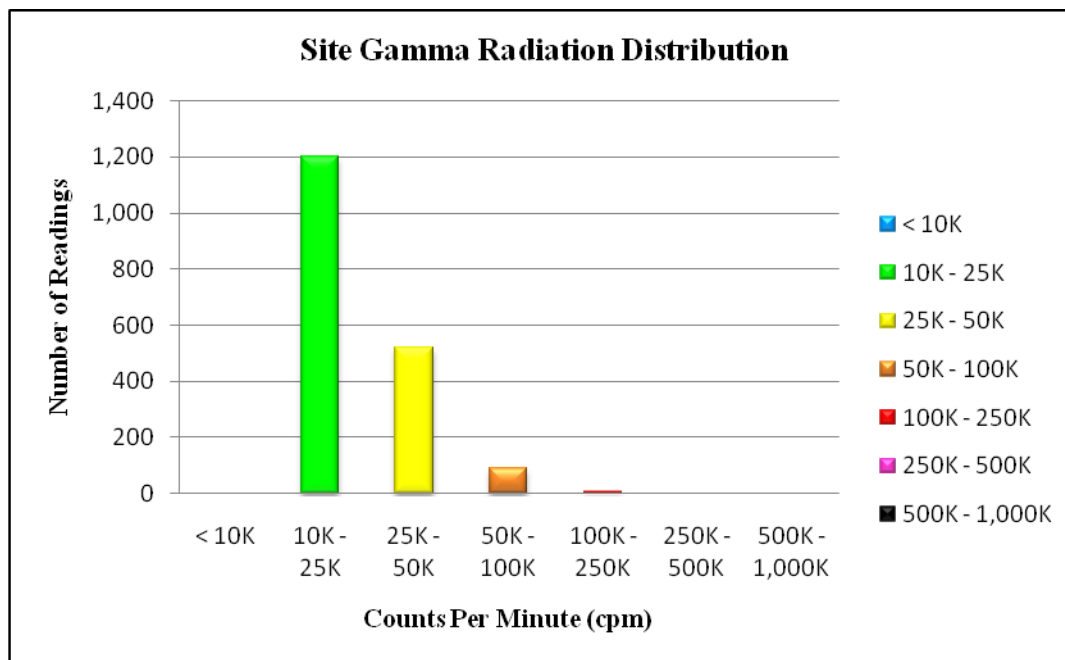
Describe any other radiological measurements:

A total of 1,821 gamma radiation measurements were collected from the mine site, ranging from 12,406 cpm to 219,808 cpm. Measurements collected in the vicinity of the former pit area were found at a maximum level of approximately 105,000 cpm. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics

Number of Readings	1,821
Minimum (cpm)	12,406
Maximum (cpm)	219,808
Mean (cpm)	25,927
Median (cpm)	21,448
Standard Deviation	13,937



Part III Status of Reclamation and Mine Waste

Mine ID: 133

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0135

NAMLRP Mine features: 1 Rim Strip / Pit

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None observed

Waste Piles:

None observed

Pits:

Covered former pit area

Shafts:

None observed

Other Debris and Mine Features:

None observed

Part IV Site Observations and Environs**Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):**

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None observed

0.25 miles to 4 miles: Little Colorado River approximately 0.75 mi SW of site

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Evans Huskon No. 2 mine claim consists of an area of 91,425.09 m^2 . The mine was identified as being operational from 1955 to 1961. While operational, the mine had a total reported production volume of 11,777 tons. The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Arrowhead Uranium Company in 1955, and Rare Metals Corporation of America from 1957 to 1961. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity?

Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels?

No

Structures:

Were any structures observed within 200 feet of the mine?

No

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine?

Yes

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

Part VI Photos



Photo 1: Mine Site #133



Photo 2: Mine Site #133; Former pit area with elevated readings



Photo 3: Mine Site #133; Former pit area with elevated readings



Photo 4: Mine Site #133; Area with elevated readings

Part VII Contacts Reports and Information

Name: Eugene Esplain

Title or official role (if any): Navajo EPA Superfund Program

Telephone number: (928) 871-7331

Address: PO Box 2946, Window Rock, AZ 86515

Information provided: Lead Regulatory Agency

Name: _____

Title or official role (if any): _____

Telephone number: _____

Address: _____

Information provided: _____

Name: _____

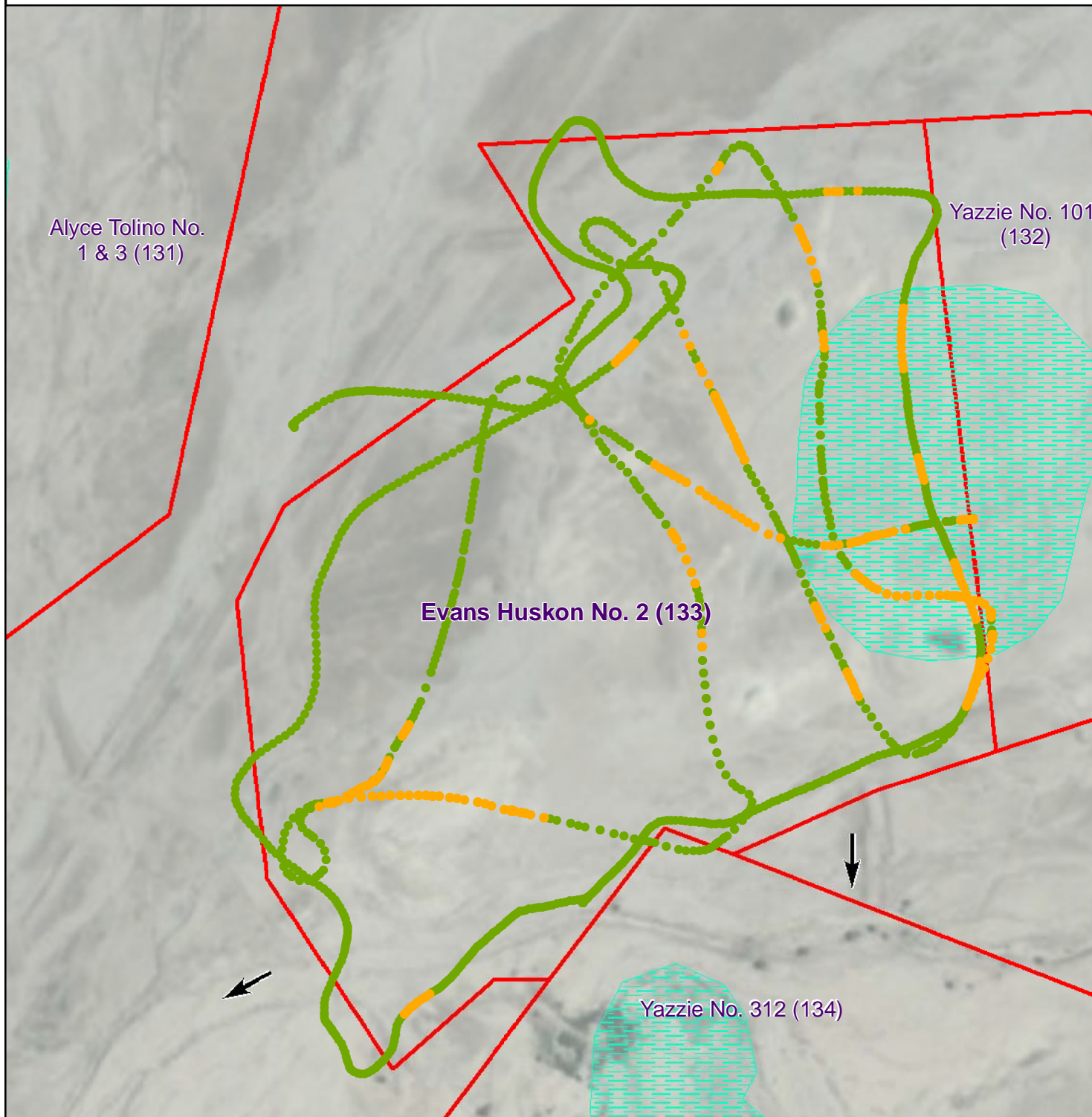
Title or official role (if any): _____

Telephone number: _____

Address: _____

Information provided: _____

**Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Evans Huskon No. 2 (133)
Coalmine Mesa Chapter, Navajo Nation**



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background

Measured as counts per minute (cpm)

Average background 15,819 cpm

- Mine Site Boundary
- General Slope Direction
- Observed Reclamation Feature
- Observed Waste Pile
- Observed Structure
- Steep Grade

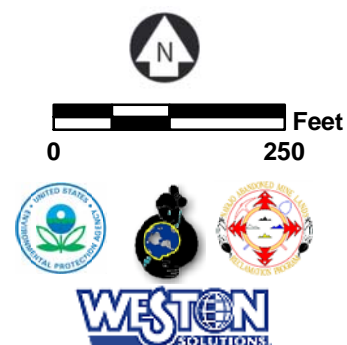
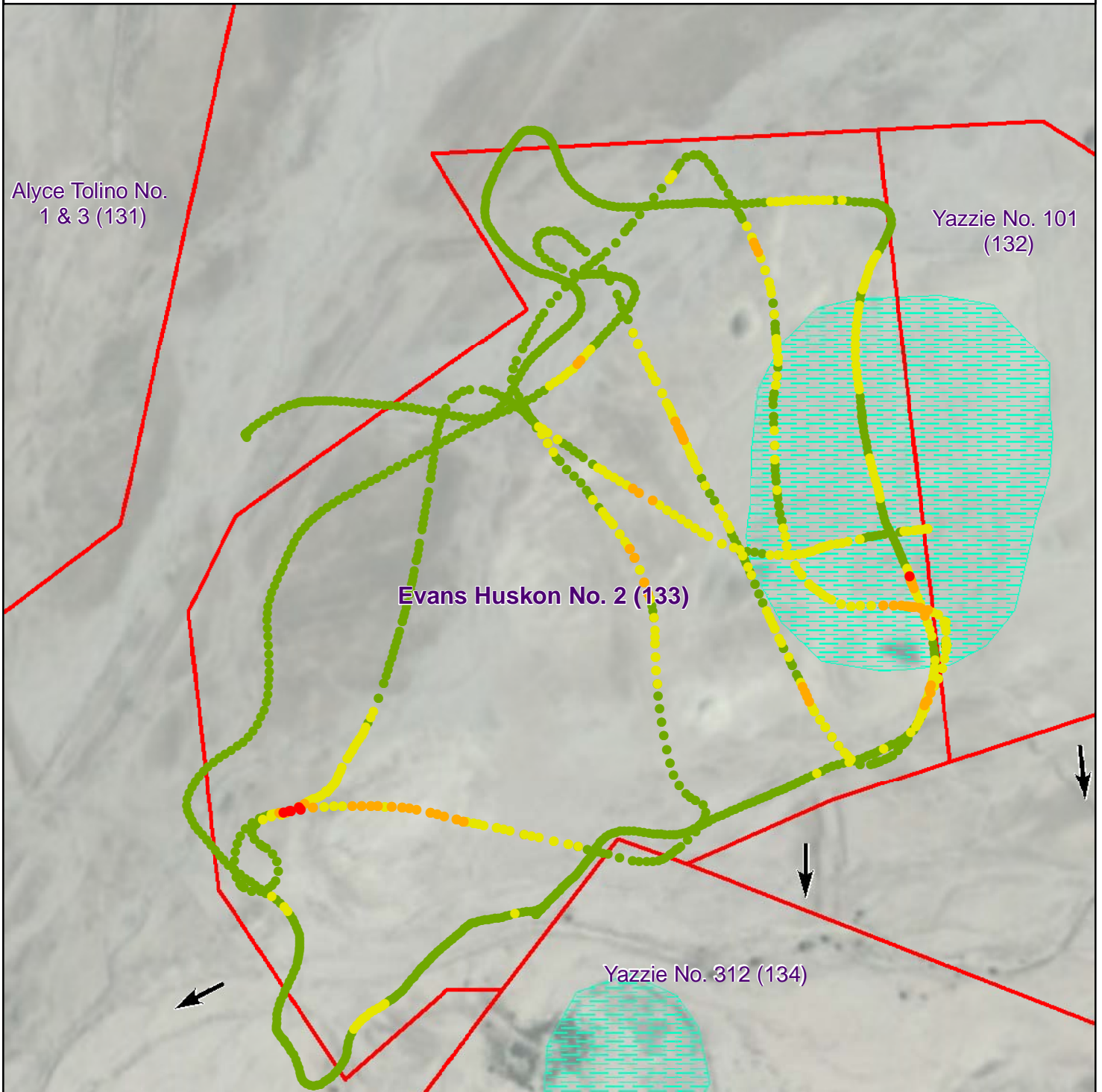


Figure 2 - Gamma Radiation Measurements
Evans Huskon No. 2 (133)
Coalmine Mesa Chapter, Navajo Nation



Gamma Radiation Measurements

- 0 - 10,000 cpm
- 10,000 - 25,000 cpm
- 25,000 - 50,000 cpm
- 50,000 - 100,000 cpm
- 100,000 - 250,000 cpm
- 250,000 - 500,000 cpm
- 500,000 - 1,000,000 cpm

Measured as counts per minute (cpm)

- Mine Site Boundary
- General Slope Direction
- Observed Reclamation Feature
- Observed Waste Pile
- Observed Structure
- Steep Grade

Average background 15,819 cpm

